Newand Interesting Facts from Science and Life

Science Now Finds DISEASE Danger In the HAND SHAKE

with one another, but perform this cells and bacteria. ceremony by shaking hands with
themselves. As the result of microscopic examinations and analyses of
finger nail deposits scientists now
case of right-handed persons) on a

A common sense than sentiment croscopic examination of finger nalls denosits has been made a laboratory in that queer custom of the deposits has been made a laboratory exercise for students in connection with one another, but exercise that the study of fiber and of body

strayed declare that there is actual side in a drop of water and to examine this carefully under the high-power of deadly disease.

Sefence even goes further than this by showing from a medico-legal power (450 diameters) of the compoint of view how the analysis of finger nail deposits will prove of the was the interpretation of the solving criminals to justice.

However, abould any one of your friends anddenly refuse to shake hinds with you, or do so under protection, and quality of clothing worn, of basis, don't feel offended. Doubtless he may be only heeding the warning may be only heeding the warning that the control of the solving criminals to justice.

The chief Source of Danger in the Hand-Shake, "Says Dr. Schneider, "Is in the Germ-Laden Deposits Under the Finger Nails."

The besteriologic findings of the exception to the rule, ing habit or by constantly digging, the exception to the rule, ing habit or by constantly digging, the exception to the rule, ing habit or by constantly digging, the exception to the rule. The bacteriologic findings of the or 'picking at a sore spot, and as a finger nail deposits are also very in result some persons are never quite teresting. The strepto-occus group free from bolks and acneic cruptions, and of personal habits of the kind and quality of clothing worn, of business occupations, etc.

"It was found that there was a very notable difference in the company to the mouth, nose, threat and wery notable difference in the company to the mouth, nose, threat and wery free from bolks and transferring as one might reasonably expect.

Thus far the medical profession eyes.

hands with you, or do so under protest, don't feel offended. Doubtless he may be only heeding the warning of the deposits of the consounded by Dr. Albert. Schneider of San Francisco, who has just an entering an Medical Association the astion to the deposits of the nails of fingers.

Albert of San Francisco, who has just and thumb of the same hand. Not pishing results of the analysis he made of the deposits taken from the finger nails of 143 subjects.

The microscopic examination of the deposits taken from the finger nails of 143 subjects.

The microscopic examination of the deposits under the finger nails of 143 subjects.

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The deformance in forensic medicine examination of the materials and thumb of the same shand. Not made of the deposits taken from the finger nails of 143 subjects.

The microscopic examination of the deposits under the finger nails of 143 subjects.

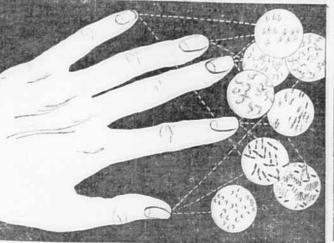
The microscopic examination of the deposits under the finger nails of 143 subjects.

The microscopic examination of the deposits under the finger nails to do away with this ancient custom.

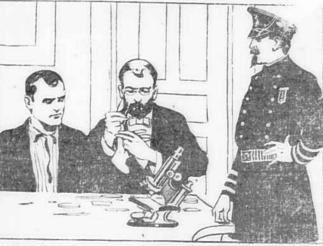
The microscopic examination has been precise to be observed by persons of clean and also in certain phases of public sorms of evaluation has been precise to the mouth, nose, threat and require the medical profession of infections. That the finger nails deposits of the nails of fingers and deposits of the nails of fingers and thumb of the same can define the massive from the handshalks is not effect.

The first the medical profession of infections to the same leaves through the handshalks is women have the habit of bringing the warning the transmission of infections. That the finger nails challenge is the manifest of infections and native by give the attention of the the massive fits the medical profession of infections. That the medical profession of infections and admitted by fits the relative

How FINGER NAIL Deposits Endanger HEALTH and Furnish CLEWS



practice is rare, however, and may be other by the scratching and samples considered the exception to the rule, ing habit or by constantly 'digging' doubt be obtained through a careful prove of greatest value in the considered the exception to the rule, ing habit or by constantly 'digging' doubt be obtained through a careful prove of greatest value in the considered the exception to the rule, ing habit or by constantly 'digging' doubt be obtained through a careful prove of greatest value in the considered through a careful prove of greatest value in the considered through a careful prove of greatest value in the considered through a careful prove of greatest value in the considered through a careful prove of greatest value in the considered through a careful prove of greatest value in the considered through a careful prove of greatest value in the considered through a careful prove of greatest value in the considered through a careful prove of greatest value in the considered through a careful prove of greatest value in the considered through a careful prove of greatest value in the considered through a careful prove of greatest value in the considered through a careful prove of greatest value in the considered through a careful prove of greatest value in the considered through a careful prove of greatest value in the careful prove of greatest value in the considered through a careful prove of greatest value in the careful prove of great



"In Criminal Cases Finger Nail Deposits of Both the Accused and the Accuser Should Be Taken in the Presence of Police Officials.'

Such information would be of inesti- cases it would be desirable to exam-mable value to physicians, to sanf- line the nail deposits of both the actarians and to the public in general, cused and the accuser, for as is deposits on the spot, and the analyst Furthermore, the occasional if not known, persons are not infrequently must therefore be vested with the routine examination of finger nail falsely accused, and particularly is necessary police authority to do deposits of patients would frequent this true in charges of assault. For this, and he must furthermore be ly give the attending physician valexample, scratches and other skin authorized to call to his assistance hable information regarding the absolute of the attending physician valexample, scratches and other skin authorized to call to his assistance hable information regarding the absolute accusing the attending physician valexample. uable information regarding the abrasions on hands and face of the any police officer that may be avail-source of the causative infections accused should reveal skin epithel able. The deposits should be examand personal habits which might ium, dermal fragments, blood corpus- ined lumediately, if possible, in a

cles and possibly hair fragments of laboratory supplied with the neces "From the medico-legal standpoint the accused in the nail deposits of sary apparatus and chemical re-the examination of nail deposits will the victim. Valuable evidence may agents."

Crime MYSTERIES

also be obtained in other criminal

"A husband was accused of having murdered his child. The examination of the husband's finger nail deposits led to the suspicion that he had buried the body in some marshy soil. Careful search along the marshy edge of a nearby stream revealed no newly made grave, but a slightly scooped out depression in the edge of the stream itself proved to be the burial place, and on digging the body was disclosed.

"Efficiency in the line of investigation suggested above depends on long experience in micro-analytic work and on a wide range of micro-scopic study of all kinds of substances, animal, vegetable and mineral. The time required to qualify as expert in this line would vary, depending on personal differences; in all probability the requisite experience, in addition to the necessary educational preparation, such as medical course, university course, special college course, etc., could not be attained in less than 10 years of constant application.
"In medico-legal cases the nail de-

posits should be taken in the pres ence of the chief of police, if possi-

The DIGESTIBILITY of Various ANIMAL FATS

ter are given in Rulletin No. 31e of foods.

colonists

tincture of arnica, two ounces.

esults of some experiments of different kinds, the relation of fruit, tea or coffee and a little sugar, on the digestibility of land, availability to total energy value of Each test period included three days, teef fat, mutton fat and buttare given in Bulletin No. 310 of ways of using fat to the quality of found was long enough for the purare given in Bulletin No. 310 of

made from the skins of toads, and ful crystalline substance to which the Chinese still use such an extract, toadskin owes its curative powers for called, "senso," as a cure for dropsy. It seems strange that after A well known remedy among a century's ridicule of a toad treat. American colonists for surply and most for dropsy. 91 per cent, which has been found to rheamatism was said to be a tond mother's remedy science should now ointment made as follows: Four find a genuinely scientific confirma-good-sized live toads; put into boil- tion of the practice. It may be obepresent the coefficient availability for the ordinary mixed diet. It is concluded, therefore, that the differing water and cook very soft; then jected that all varieties of toads do take them out and boil the water not give the same secretion as the ent fats did not exercise any unusual effect on the digestibility of the other down to half a pint, and add fresh giant toad from the Amazon, but it churned, unsaited butter, one pound, has been found that another crystal

constituents of the rations.
"It was also found that fats of low melting point are more capable of complete assimilation than those of a high melting point, and that fats differ in their melting point according to the portion of the body

amount was decreased."

KAPOK, the Newest RIVAL to WOOL amount of beef fat was 140 grams or over, a laxative effect was experienced which disappeared when the

and simmer together; at the last add line substance, of very similar prop-

sprains and ment

The natives of Brazil make an ar- common toad.

for dronsy

material out of which they are now making mattresses, life-belts, pillows, linings for clothes, "warmer" than wool and six times why Children Like Candy even underwear, is a sort of silky lighter. down similar to cotton, but posseseverywhere in the tropics.

the cotton plant, kapok is a product A man wearing a kapok waistcoat to feel their benefits.

of the interior walls of the pods. It would float like a cork

is a matted, soft mass of fine hairs.

It is claimed that no amount of energy within a few minutes after

tight, weighs only 20 pounds. The place for vermin.

erties, is found in the skin of the

An overcoat made of kapok is very sing many advantages over this and light and yet prevents the cold from sing many advantages over this and user and yet prevented to the body even being a close rival to wool. It from escaping. This is due to the human system. The purpose of all Irom escaping. This is due to the human system. The purpose of all tain species of trees, commonly mattress of air among the fibres, but tood is to supply the energy that is called silk-cotton trees, which grow also much air inside them. This is wasted by physical exertion. Some in Java, the Philippines, the Antilles, what makes it such an ideal sub- foods more than others contain the Brazil, India, and, in fact, almost stance for life-preserving mats and elements necessary to furnish this verywhere in the tropics.

belts, as in fresh water kapok can supply and vary in the time required support 175 times its own weight.

HILDREN like candy because of its properties of sugar, a

each of which is from one-third of an souking will spoil it, for it cannot it is eaten and candy gives a quick inch to an inch long and from less decay, its hairs containing no proto supply of the energy called for by than a thousandth to about a five plasm and being nothing but fine the activities of youth. Thus the hundredth of an inch thick, shells of cellulose, which will nourish constant need of energizing force A cubic yard of kapok, packed no microbes and furnish no lodging by children leads them instinctively

In Europe, but so far it has not seed adopted as an officially recognized routine in the examination of crimination of time the examination of crimination of time apparent to me when incidentally evaluable from my lever close to the point of nearly cause and variety of substances found was any kind will find lodgment. This

top end a base strip (A), 32 inches wide, is nailed on the box parallel with the edge. A base strip (B), 38 inches long, also 1x3 inches in dimensions, is then nailed across the box diagonally, the upper edge of this strip at the left hand end being 40 inches from the lower edge of the upper base strip (A), measured along the line (1). The other end of the the line (1) strip (B), measured along the line (2), should be, approximately, 21 inches from the lower edge of the upper strip (A).

The frame is now ready to receive the vibrating members (CC). These should be of dry pitch pine, profersably one inch thick, and 1% inches wide, which have their ends secured to the upper and lower base strips (A, B) by suitable screws, so that they are a quarter of an inch apart.

To secure the proper musical in tervals care must be exercised in at taching the lower ends, for the a proper relation to each other. This is provided for in the following manner

As there are 12 keys to each octave, and each is a half-tone higher (or lower) than the next, it is necesmary to make each bar (C) successively shorter as progress is made upwardly along the board; hence thin veneering strips (D) are placed under the lower ends of the bars, thus making a step formation along the base strip (B). More or less of these pieces of veneer can be cut away until the exact tone or pitch

is attained in the vibrating bar. The length of the first vibrating bar (A) is 40 inches, from edge to

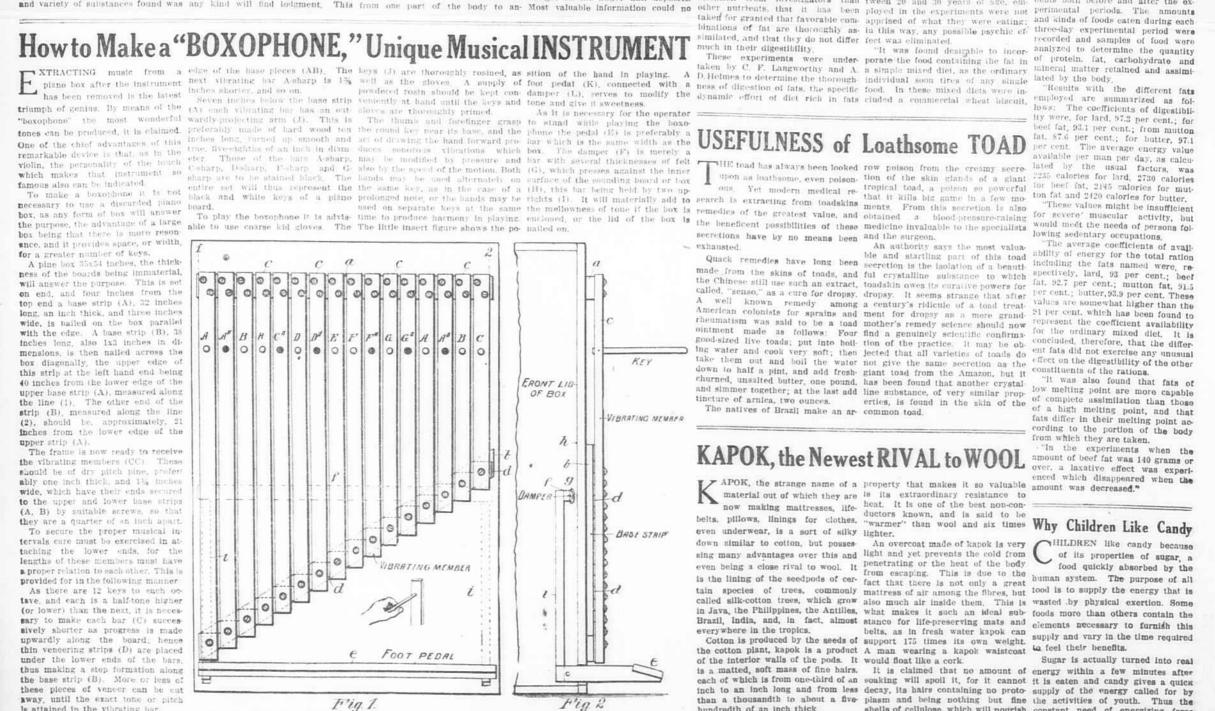


Diagram Showing the Details of Construction of the Boxophone, to Play Which the Performer Wears Coarse Kid Gloves.